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NEW SOVIET TELESCOPE  
HAS NO ABERRATIONS

A powerful 50-centimeter meniscus telescope, designed by B. K. Ioannisiiani and utilizing the new optic scheme of Professor D. D. Maksutov, Stalin prize winner, has been produced in Leningrad.

One of the most serious failings of the ordinary telescope, both the lens and mirror type, is spheric and chromatic aberration. (The image is indistinct and out of focus, and is tinted because of unequal refraction of light rays of different color.) Owing to the combination of a spheric mirror and meniscus (a concavo-convex lens), the new telescope has no aberrations. It is simple to produce, inexpensive, and easy to work with because of its abbreviated length. The mirror is not exposed to injurious action of the air, since the tube is closed by the meniscus.

The telescope will be erected on the grounds of the Astrophysics Observatory in the vicinity of Alma-Ata, at an elevation of 1,500 meters above sea level. It will be used for research on asteroids, galaxies, and nebulae, as well as for settling problems concerning the evolution of our solar system and the astral universe.

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